2003	0	
	7 (1)	
•	Sin	E 8
		== 4

Please type a plus sign (+) inside this box →									
CERTIFICATE OF MAILING OR TRANSMISSION									
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as Express Mail (label number EXIT/887/14/19US) in an envelope addressed to: Mail Stop: New Application, Commissioner For Patents P.O. Box 1450, Alexandria VA 22313-1450 on under the provisions of 37 CFR §1.10.									
Mailer's Name (Print/Type) Lee Ann DiLello	Signa	ture	Dod	lah		() Date	10/14/2003	0	
UTILITY		Attorne	ey Docke	t No.	ATMI-6	76		ο, r	
PATENT APPLICATION	1	First Inventor Tianniu Chen						+ 6	
TRANSMITTAL		Title Tantalum Amide Complexes for Depositing Tantalum-Containing Films, and Method of Making Same							
(Only for new non-provisional applications under 37 CFR 1.5.	3(b))			_					
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application conto		ADDI	RESS T	O: P.O	nmissioner f . Box 1450 kandria, VA				
Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)		7.	CD-F Com	ROM or CD- puter Progra	R in duplica am (Append	te, large ta ix)	ble or		
2. Applicant claims small entity status. See 37 CFR 1.27.			cleotide an		Acid Seque	nce Submi	ssion		
3. X Specification [Total Pages (preferred arrangement set forth below)] j	а. [Com	puter Reada	able Form (C	CRF)			
Descriptive Title of the Invention Cross Reference to Related Applications		b. \$			ce Listing on				
 Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, 			'.	paper	CD-R (2 CC	pies), or			
or a computer program listing appendix - Background of the Invention		c. Statements verifying identity of above copies							
 Brief Summary of the Invention Brief Description of the Drawings (if filed) 		ACCOMPANYING APPLICATION PARTS							
- Detailed Description - Claim(s)	i	X Assignment Papers (cover sheet & document(s))							
- Abstract of the Disclosure	111	10. 37 CFR 3.73(b) Statement (when there is an assignee) Power of Attorney							
4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 8]]	11. English Translation Document (if applicable)							
5. Oath or Declaration [Total Sheets]]	12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations							
a. X Newly executed (original or copy)	1	13. Preliminary Amendment							
b. Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed)		14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized)							
i DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s)		15. Certified Copy of Priority Document(s) (if foreign priority is claimed)							
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).		16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.							
6. Application Data Sheet. See 37 CFR 1.76		17. Other:							
18 If a CONTINUING APPLICATION, check appropriate box, and or in an Application Data Sheet under 37 CFR 1.76:	l supply i	the req	uisite infor	mation belo	w and in a p	reliminary	amendment,		
Continuation Divisional Continuation-in-pa	art (CIP)			_					
Prior application information: Examiner Group Art Unit: For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b,									
is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation <u>can</u> <u>only</u> be relied upon when a portion has been inadvertently omitted from the submitted application parts.									
19. CORRESPONDENCE ADDRESS									
Customer Number or Bar Code Label (Insert Customer No. of	25559 or Attach bar	or Correspondence address below							
Name ADVANCED TECHNOLOGY M	ATERIA	ALS, IN	NC.						
Address 7 Commerce Drive									
City Danbury	s	tate	СТ		Zip Code	06810			
Country USA	Teleph	one	(203) 794	1-1100	Fax	(203) 79	97-2544		

William F. Ryann Registration No. (Attorney/Agent)

Date 44,313 10/14/2003 Name (Print/type) Signature

PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Filing Date First Named Inventor First Named Inventor Tranniu Chen Examiner Name Art Unit Attorney Docket No. ATMI-676 METHOD OF PAYMENT (check all that apply) Check Credit card Money Other Order Deposit Account: Deposit Account Number Deposit Account Name Advanced Technology Mater Name Deposit Account Name Advanced Technology Mater Name Deposit Account Name Advanced Technology Mater Name Charge see(s) indicated below Credit any overpayments Charge see(s) indicated below except for the filing fee The above-identified deposit account. BASIC FILING FEE Tee Fee Paid Technology Mater Solution of SIR prior to Examiner action Technology Mater Solution of SIR after Examiner action Fee Paid 1804 920 1804 920 Requesting publication of SIR after Examiner action Solution of SIR after Examiner action Fee Paid 1805 1,840 1805 1,840 Requesting publication of SIR after Examiner action Solution of SIR after Examiner action Fee Paid 1804 920 1804 920 Requesting publication of SIR after Examiner action Solution of SIR after Examiner action 1805 1,840 1805 1,840 Requesting publication of SIR after Examiner action Solution of SIR after Examiner action Solution of SIR after Examiner action 1805 1,840 1805 1,840 Requesting publication of SIR after Examiner action 1806 920 1804 920 Requesting publication of SIR after Examiner action 1806 1,840 Requesting of reply within first month 1807 1,840 Requesting of reply within first month 1808 1,840 Requesting of reply within fourth month 1809 1,840 Requesting of Appeal 1800 1,770 2001 385 Utility filing fee 1809 1,840 Requesting of Appeal 1809 1,840 Requesting of Appeal 1809 1,840 Requesting of Appeal 1809 1,840 Requestion of Reply within firth month 1809 1,840 Requestion of Reply within firth month 1809 1,840 Requestion of Reply within firth month 1809 1,840 Request for oral hearing		СС Т	D V VIC	MITTA		Complete if Known						
Filing Date First Named Inventor Applicant claims small entity status. See 37 CFR 1.27 TOTAL AMOUNT OF PAYMENT (\$) 1614 METHOD OF PAYMENT (check all that apply) Deposit Account: Deposit Account: Deposit Account: Name Advanced Technology Mater Name Discreption (check all that apply) Advanced Technology Mater Name Discreption (check all that apply) Charge se(s) indicated below wider account. Charge se(s) indicated below, except for the filing fee The above-identified deposit account. BASIC FILING FEE Tee Description Tee Paid Tianniu Chen Examlner Name Art Unit Attorney Docket No. ATMI-676 Advanced Technology Mater Name Tee Paid Total AMOUNT OF PAYMENT (\$) 1614 Attorney Docket No. ATMI-676 Tee Paid Attorney Docket No. ATMI-676 The above description (continued) Tee Paid Total AMOUNT OF PAYMENT Total AMOUNT OF PAYMENT (\$) 1614 Total AMOUNT OF PAYMENT Total AMOUNT OF PAYMENT (\$) 1614 Attorney Docket No. ATMI-676 The above description (continued) The above description (check all that apply) Total AMOUNT OF PAYMENT Total	17638		KANS	IVII I. I A	- լ	Appli	cation	Numb	er			
Applicant claims small entity status. See 37 CFR 1.27 TOTAL AMOUNT OF PAYMENT (\$) 1614 METHOD OF PAYMENT (check all that apply) Check Credit card Money Order Order Deposit Account: Deposit Account Number Deposit Account Name Advanced Technology Mater Name Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments Charge any additional fee(s) or any underpayment of fee(s) Charge fee(s) indicated below, except for the filling fee The above-identified deposit account. FEE CALCULATION Total AMOUNT OF PAYMENT (\$) 1614 Attorney Docket No. ATMI-676 TERTITIO CRETT Examiner Name Art Unit Attorney Docket No. ATMI-676 TELLING FEE Large Entity Small Entity Fee	بر	0004		Filing Date								
Applicant claims small entity status. See 37 CFR 1.27 TOTAL AMOUNT OF PAYMENT (\$) 1614 Attorney Docket No. ATMI-676 METHOD OF PAYMENT (check all that apply) Check Credit card Money Order None Order	C Effective	First Named Inventor			Inver	ntor	Tianniu Chen					
TOTAL AMOUNT OF PAYMENT (\$) 1614 Attorney Docket No. ATMI-676 METHOD OF PAYMENT (check all that apply) Check Credit card Money Other Order None Order Deposit Account: Deposit Account Number Deposit Account Account Number Deposit Account Number Number Deposit Account Number Nu			Examiner Name									
METHOD OF PAYMENT (check all that apply) Check Credit card Money Other None Order Deposit Account: Deposit Account Number Deposit Account Number Deposit Account Name he Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments Charge any additional fee(s) or any underpayment of fee(s) Charge fee(s) indicated below, except for the filing fee the above-identified deposit account. BASIC FILING FEE arge Entity Small Entity Fee	Applica	ſ	Art Unit									
Check Credit card Money Other None Order O	TOTAL AM	MOUNT OF	PAYMENT	(\$) 1614		Attorney Docket No.				ATMI-676		
Deposit Account: Deposit Account: Deposit Account: Deposit Account: Number Deposit Account Number Deposit Account Name Deposit Account Number Deposit Account Name Advanced Technology Mater Advanced Technology Mater Charge fee(s) indicated below	METH	OD OF PA	YMENT (check	all that apply)				FE	E CA	LCULATION (continued)		
Deposit Account Number Deposit Account Number Deposit Account Name he Director is authorized to: (check all that apply) Charge fee(s) indicated below Cotarge eny additional fee(s) or any underpayment of fee(s) Icharge fee(s) indicated below, except for the filing fee Ithe above-identified deposit account. BASIC FILING FEE ree Fee Fee Fee Fee Fee Fee Description Code (\$) Code (\$)	Check	Credit car	rd Money Order	Other None					-			
Number Deposit Account Name he Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments Charge ene(s) indicated below Requesting publication of SIR prior to Examiner action Charge fee(s) indicated below, except for the filing fee I the above-identified deposit account. BASIC FILING FEE	Deposit	[Fee	Fee	Fee	Fee		Fee Description	Fee Paid	
Account Name he Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments Charge fee(s) indicated below, except for the filing fee othe above-identified deposit account. BASIC FILING FEE arge Entity Small Entity ee Fee Fee Fee Fee Fee Fee Pee Fee Pee Fee Pool of (\$\$) Code (\$\$	·Number	30-0000			1051	130	2051	65	Surch	narge - late filing fee or oath		
The Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments Charge any additional fee(s) or any underpayment of fee(s) Charge fee(s) indicated below, except for the filling fee of the above-identified deposit account. FEE CALCULATION BASIC FILING FEE targe Entity Small Entity ee Fee Fee Fee Fee Fee Fee Fee Fee Pood (\$) Code (\$) Co	Account	1052	50	2052	25							
Charge fee(s) indicated below Credit any overpayments Charge any additional fee(s) or any underpayment of fee(s) Charge fee(s) indicated below, except for the filing fee of the above-identified deposit account. FEE CALCULATION BASIC FILING FEE Irge Entity Small Entity ee Fee Fee Fee Fee Fee Fee Fee Foods Toda (\$\$) Code (\$\$		1053	130	1053			• •					
Charge fee(s) indicated below, except for the filing fee The above-identified deposit account. Charge fee(s) indicated below, except for the filing fee The above-identified deposit account. Charge fee(s) indicated below, except for the filing fee The above-identified deposit account. Charge fee(s) indicated below, except for the filing fee The above-identified deposit account. Charge fee(s) indicated below, except for the filing fee Coulomb 1805 1,840° Requesting publication of SIR after Examiner action Charge fee(s) indicated below, except for the filing fee 1805 1,840° Requesting publication of SIR after Examiner action Charge fee(s) indicated below, except for the filing fee 1805 1,840° Requesting publication of SIR after Examiner action Charge fee(s) indicated below, except for the filing fee 1805 1,840° Requesting publication of SIR after Examiner action Charge fee(s) indicated below, except for the filing fee 1805 1,840° Requesting publication of SIR after Examiner action Charge fee(s) indicated below, except for the filing fee 1805 1,840° Requesting publication of SIR after Examiner action Charge fee(s) indicated below, except for the filing fee 1251 110 2251 55 Extension for reply within first month 1252 420 2253 475 Extension for reply within fourth month 1254 1,480 2254 740 Extension for reply within fourth month 1255 2,010 2255 1,005 Extension for reply within fifth month 1255 2,010 2255 1,005 Extension for reply within fifth month 1255 2,010 2255 1,005 Extension for reply within fifth month 1255 2,010 2255 1,005 Extension for reply within fifth month 1255 2,010 2255 1,005 Extension for reply within fifth month 1255 2,010 2255 1,005 Extension for reply within fifth month 1255 2,010 2255 1,005 Extension for reply within fifth month 1255 2,010 2255 1,005 Extension for reply within fifth month 1255 2,010 1255 2,010 1255 2,010 1255 2,010 1255 2,010 1255 2,010 1255 2,010 1255		1812	2,520	1812	2,520	For fil	ing a request for ex parte reexamination	-				
The above-identified deposit account. FEE CALCULATION BASIC FILING FEE arge Entity Small Entity ee Fee Fee Fee Fee Poode (\$) Out 770 2001 385 Utility filling fee Out 340 2002 170 Design filling fee Out 370 2004 385 Reissue filling fee Out 770 2004 385 Reissue filling	Charge any additional fee(s) or any underpayment of fee(s)					920*	1804	920*	Requ Exam	esting publication of SIR prior to iner action		
1252 420 2252 210 Extension for reply within second month 1253 950 2253 475 Extension for reply within third month 1254 1,480 1255 2,010 1255 1,005 Extension for reply within fourth month 1255 2,010 1255 1,005 Extension for reply within fifth month 1257 1,480 1258 1,480 1259 1,005 Extension for reply within fifth month 1257 1,480 1258 1,005 Extension for reply within fifth month 1,401 1,	Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.					1,840*	1805	1,840*				
1253 950 1253 475 Extension for reply within third month 1254 1,480 1255 2,010 1255 2,010 1255 1,005 Extension for reply within fight month 1254 1,480 1255 1,005 Extension for reply within fight month 1255 2,010 1255 1,005 Extension for reply within fight month 1401 330 2401 165 Notice of Appeal 1402 330 2402 165 Filing a brief in support of an appeal 1403 290 2403 145 Request for oral hearing 1403 1405 1						110	2251			• •		
ee Fee Fee Fee Paid 1254 1,480 2254 740 Extension for reply within fourth month 001 770 2001 385 Utility filing fee 770 1255 2,010 2255 1,005 Extension for reply within fourth month 002 340 2002 170 Design filing fee 1401 330 2401 165 Notice of Appeal 003 530 2003 265 Plant filing fee 1402 330 2402 165 Filing a brief in support of an appeal 004 770 2004 385 Reissue filing fee 1403 290 2403 145 Request for oral hearing	1. BASIC F	ILING FEE			1252	420	2252	·210	Exte	nsion for reply within second month		
Code (\$) Code (\$) Code (\$) Code (\$) Code (\$) Code (\$) Code (\$) Code (\$) Code			<u> </u>	Fre Bald				475	Exte	nsion for reply within third month		
1401 330 2401 165 Notice of Appeal 1402 330 2402 165 Filing a brief in support of an appeal 1403 290 2403 145 Request for oral hearing 1403 290 2403 24			Fee Description	ree Paid	1254	1,480	2254			•		
002 340 2002 170 Design filing fee 1401 330 2401 165 Notice of Appeal 003 530 2003 265 Plant filing fee 1402 330 2402 165 Filing a brief in support of an appeal 004 770 2004 385 Reissue filing fee 1403 290 2403 145 Request for oral hearing	1001 770	2001 385	Utility filing fee	770	1255	2,010	2255	1,005	Exte	nsion for reply within fifth month	-	
004 770 2004 385 Reissue filing fee 1403 290 2403 145 Request for oral hearing	1002 340	2002 170	Design filing fee		1401	330	2401	165	Notic	ce of Appeal		
	1003 530	2003 265	Plant filing fee						•			
005 160 2005 80 Provisional filing fee 1451 1,510 1451 1,510 Petition to institute a public use proceeding	1004 770	2004 385	Reissue filing fe	•					•			
	1005 160	2005 80	Provisional filing	fee	1451	1,510	1451	1,510	Petiti	on to institute a public use proceeding		

1004 7	770	2004	385		Reissue filing fee		1403	290	2403	145	Request for oral hearing	
1005 1	160	2005	80		Provisional filing fee		1451	1,510	1451	1,510	Petition to institute a public use proceeding	
				su	BTOTAL (1) (\$) 77	70	1452	110	2452	55	Petition to revive - unavoidable	
- =\ <i>i</i>									2453	665	Petition to revive - unintentional	
2. EX	TRA	CLAII	VI F	EES	FOR UTILITY AND		1501	1,330	2501	665	Utility issue fee (or reissue)	
T		100	_		xtra Claims below	Fee Paid	1502	480	2502	240	Design issue fee	
Total C Indepe		36	4		= 16 x 18	= 288	1503	640	2503	320	Plant issue fee	
Claims		9_	_	- 3** :	= 6 x 86	= 516	1460	130	1460	130	Petitions to the Commissioner	
Multiple	e nepe	naeni				=	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
Large Fee	Entity Fee		II Er		Fac Danasintian		1806	180	1806	180	Submission of Information Disclosure Stmt	
Code	(\$)	Co	de (\$)	Fee Description		8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40
1202	18		202	9	Claims in excess of 20		1809	770	2809	385	Filing a submission after final rejection	
1201	86	2	201	43	Independent claims in e	excess of 3	l				(37 CFR 1.129(a))	igsquare
1203	290	2:	203	145	Multiple dependent clair	m, if not paid	1810	770	2810	385	For each additional invention to be	
1204	86	2:	204	43	** Reissue independent	t claims					examined (37 CFR 1.129(b))	
		l			over original patent		1801	770	2801	385	Request for Continued Examination (RCE)	
1205	18	2:	205	9	** Reissue claims in exc and over original pate		1802	900	1802	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 804							Other fee (specify)					
								*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40				
**or number previously paid, if greater; For Reissues, see above						see above	Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40					

SUBMITTED BY (Complete (if applicable)) Registration No. Name (Print/Type) William F. Ryann 44,313 Telephone 203-794-1100 Date 10/14/2003 Signature

> WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.